

What is Claimed is:

1. A mounting bracket for securing a circuit breaker air-core coil to at least one fastener head, said bracket comprising:

a unitary body having generally U-shaped portion;

at least one retaining form structured to fit over said at least one fastener head; and

said retaining form coupled to said unitary body.

2. The mounting bracket of claim 1, wherein said U-shaped portion has a first side member, a second side member, a bottom member, an inner side, an outer side, and a longitudinal axis extending across said first side, second side and bottom members.

3. The mounting bracket of claim 2, wherein said at least one retaining form coupled to said bottom member on said outer side and offset from said longitudinal axis.

4. The mounting bracket of claim 2, wherein:
said at least one retaining form is arc segment having a top portion and a bottom portion ;

said top portion coupled to said U-shaped portion; and

said bottom portion having a retaining lip structured to fit under said fastener head.

5. The mounting bracket of claim 4, wherein:
said at least one retaining form includes two retaining forms; and
said arc segments are disposed about 180 degree from each other about a central point.

6. The mounting bracket of claim 4, wherein:
said at least one retaining form includes two retaining forms; and
said two retaining forms open inwardly in opposite directions.

7. The mounting bracket of claim 4, wherein:
said at least one retaining form includes two retaining forms; and
said two retaining forms open outwardly in opposite directions.

8. The mounting bracket of claim 4, wherein:
said at least one retaining form includes two retaining forms; and
said retaining forms are arcs extending about 180 degrees which open outwardly in opposite directions.

9. A circuit breaker comprising:
a housing;
a main stationary contact disposed in said housing;
a main movable contact disposed in said housing;
an operating mechanism structured to move said main movable contact into and out of contact with said main stationary contact;
a line conductor in electrical communication with said main stationary contact;
a load conductor in electrical communication with the main movable contact;
said load conductor coupled to said housing by at least one fastener having a head;
an electronic trip unit coupled to said operating mechanism and structured to actuate said operating mechanism upon the event of an over-current condition;
a current sensor disposed about said load conductor and having an output wire coupled to said electronic trip unit;
an air-core sensor assembly having an air-core coil and a mounting bracket;
said bracket comprising:
a unitary body having generally U-shaped portion;
at least one retaining form structured to fit over said at least one fastener head;
and

said retaining form coupled to said unitary body.

- 10. The circuit breaker of claim 9, wherein:

said U-shaped portion has a first side member, a second side member, a bottom member, an inner side, an outer side, and a longitudinal axis extending across said first side, second side and bottom members;

said at least one retaining form coupled to said bottom member on said outer side and extending across said longitudinal axis; and

whereby, when said mounting bracket is coupled to said load conductor fastener head, said mounting bracket is disposed substantially above the fastener head.

11. The circuit breaker of claim 9, wherein:

said at least one retaining form is arc extending having a top portion and a bottom portion;

said top portion coupled to said U-shaped portion; and

~ said bottom portion having a retaining lip structured to fit under said at least one fastener head.

12. The circuit breaker of claim 11, wherein:

said at least one retaining form is arc segment having a top portion and a bottom portion ;

said top portion coupled to said U-shaped portion; and

said bottom portion having a retaining lip structured to fit under said fastener head.

13. The circuit breaker of claim 12, wherein:

said at least one retaining form includes two retaining forms; and

said arc segments are disposed about 180 degree from each other about a central point.

14. The circuit breaker of claim 12, wherein:

said at least one retaining form includes two retaining forms; and
said two retaining forms open inwardly in opposite directions.

15. The circuit breaker of claim 12, wherein:
said at least one retaining form includes two retaining forms; and
said two retaining forms open outwardly in opposite directions.

16. The circuit breaker of claim 12, wherein:
said at least one retaining form includes two retaining forms; and
said retaining forms are arcs extending about 180 degrees which open
outwardly in opposite directions.

17. The circuit breaker of claim 9, wherein:
said housing defines an interior space having an outer portion adjacent to the
housing, and an interior portion;
said current sensor disposed in said outer portion; and
said air-core sensor assembly is disposed in said interior portion.

18. The circuit breaker of claim 9, wherein:
said current sensor has an outer side and an inner side;
said outer side disposed adjacent to said housing;
said inner side and said outer side defining a primary sensor space
therebetween; and
said air-core sensor assembly disposed adjacent to, but not within, said
primary sensor space.

19. The circuit breaker of claim 18, wherein :
said U-shaped body has a first side member, a second side member, a bottom
member and a longitudinal axis extending across said first side, second side and
bottom members;
said retaining form formed on said unitary body so that a portion of said
retaining form extends across said longitudinal axis; and

whereby, when said mounting bracket is coupled to said load conductor fastener head, said mounting bracket is disposed substantially above the fastener head.

20. The circuit breaker of claim 19, wherein:
said retaining forms are two opposed arcs; and
each said arc having a retaining lip.